PERZ, Marian

Geotrichum candidum as a cause of con unctival mycoses. Elin. oczna 35 no.3:443-446 '65.

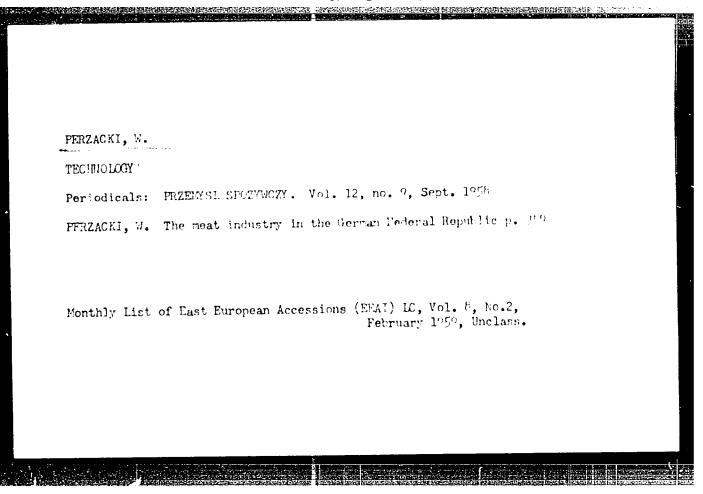
Notes on corneal aspergillosis according to our observations. lbid.:459-461

1. Z Oddzialu Ocznego Szpitala im. J. Strusia (Ordynator: dr. mod. M. Perz) i z Zakladu Mikologii Lekarskiej AM w Poznaniu (Kierownik: prof. dr. med. J. Alkiewicz).

OLSZAK, W.: PERZYNA, P. (Warsaw)

"Equation for the elastic-plastic state of the soil".

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964



PERZADAYEV, U. P., Candidate of Veterinary Sciences and Veterinarians A. A. Filippov, Chkalov Sci Res Vet Expt'l Station (NIVOS)

Z. Ye. Zhirkova

"Identification of Salmonellae in Chkalov Oblast and their Pathogenicity in the Young of Farm Animals"

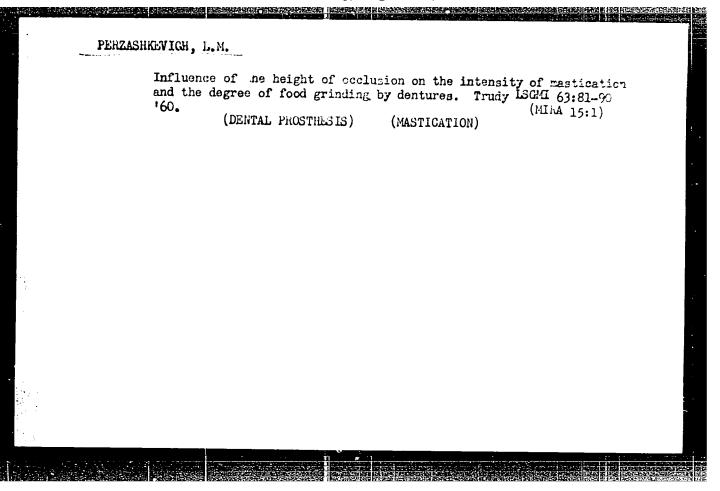
As a result of bacteriological, biochemical and serological studies of a large amount of pathological anatomical material sent to the veterinary experimental station from various rayons of Chkalov Oblast, the authors isolated 64 strains of bacteria of the Salmonella group.

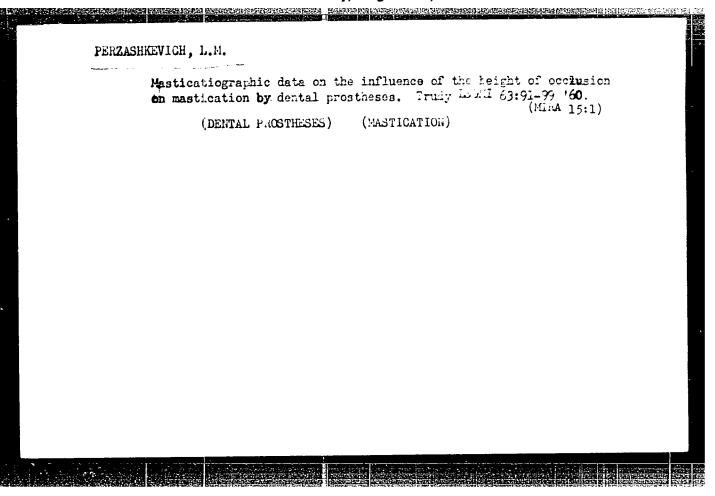
Veterinariya, Vol 27, No 1, pp 23-27, 1950 U-5549, 16 Feb 1954

ELISEYEV, K. M. and KOCHEGANOV, Kh. E. (Docents), PERZADAYEV, O. P. (Candidate of Veterinary Sciences), ATACHKIN, Zh. A. and TULAKIN, V. I. Veterinary Doctors, Semipalatinsk Zooveterinary Institute).

"The work of helminthological brigades..."

Veterinariya, vol. 39, no. 2, February 1962 pp. 15





PERZASHKRVIGH, L.M.

Peculfarities of dental prosthesis in accelerated odontotripsis. Stomatologia 38 no.2:53-54 Ap '59. (MIRA 12:7)

PERZASHKEVICH, L. M.

Cand Med Sci - (diss) "Features of the chewing function as a function of the height of occlusion in dental prosthesis." Leningrad, 1961. 18 pp; (Ministry of Public Health RSFSR, First Leningrad Medical Inst imeni Academician I. P. Pavlov); 350 copies; price not given; (KL, 5-61sup, 205)

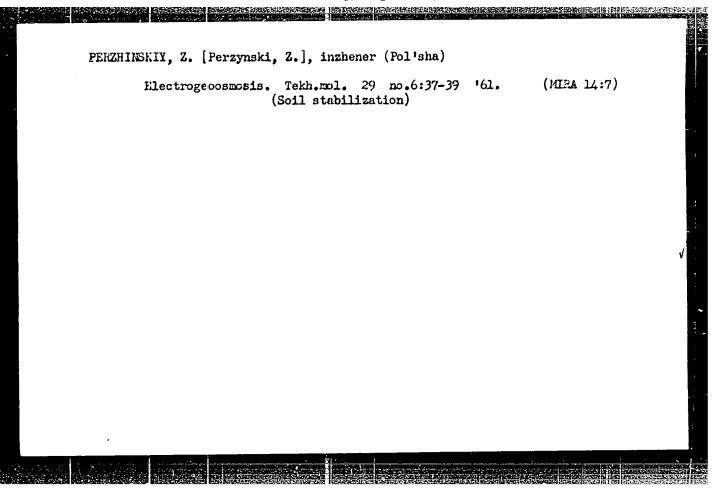
The outlook for the technical development of our railroads. p. 477.
(TROUDING PenCh. Vol. 9, ho. 7, July 1957, Gratislava, Gzechoslovakia)

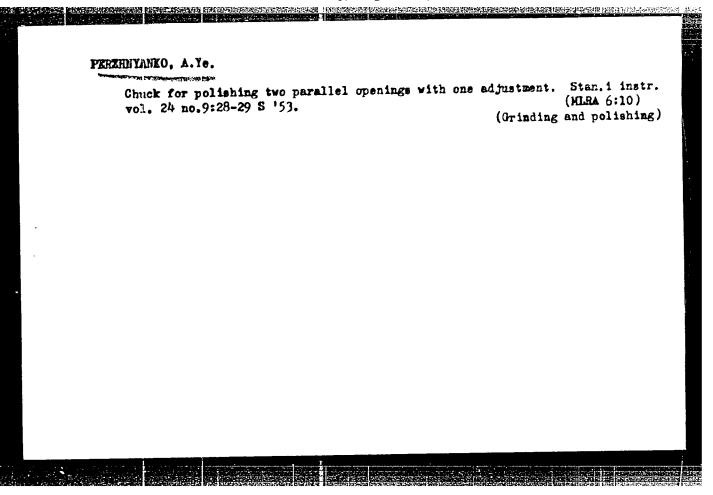
So: Monthly wint of East European Accessions (Child) Lee, Vol. 6, ho. 1 , eer in . onci.

PERZELY, GY.

Recent data on the warming of the stratosphere caused solar activity. p. 121. Vol. 60, No. 2 Mar/Apr. 1956. Budapest, Hungary. IDOJARAS.

SOURCE: East European List, (EEAL) Library of Congress Vol. 6, No. 1 January 1956.





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AUTHOR: Perzhnyanko, E.A. (Moscow)

SOV/179-59-5-7/41

TITLE:

Action of Long Waves on a Floating Body

PERIODICAL: Izvestiya Akademii mauk SSSR, Otdeleniye tekhnicheskikh

nauk, Mekhanika i mashinostroyeniye, 1959, Nr 5,

pr 34-40 (USSR)

ABSTRACT:

An arbitrary solid body with vertical sides is assumed to be floating on a heavy ideal liquid. The depth of the liquid is small in relation to the length of the waves; the dimensions of the body and its immersed depth are small in relation to the depth of the liquid. The induced vibrations of the body and the waves reflected from it are also small. The liquid is imagined divided into two regions, one underneath the body, the other outside it, and the differential equation for the pressure is set up for each region. The equation is solved for the boundary

conditions appropriate to a rectangular strip and to a circle by the Fourier method of separating the variables.

The method of solution can also be applied to an ellipse.

Card 1/2

Thanks are expressed to L.N.Stretenskiy for advice

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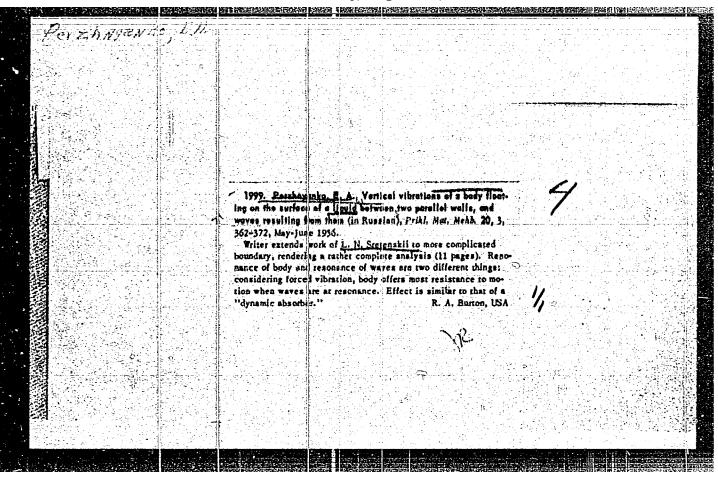
SOV/179-59-5-7/41

during the preparation of the paper. There are
4 figures and 1 Soviet reference.

SUBMITTED: March 16, 1959

Card 2/2

PERCHIMANNO, E. A., Cand thus - Math Set (diss) - "The effect of long veries of floating hodies, and the wave resistance of modies moving the anthrolon," of wheek, 1000. (pp (Acad Set 1800), Inst of Meek', 125 copies (KI, No.14, 1907, 1907)



10 (4) AUTHOR:

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Pershnyanko, E. A.

8/020/60/130/03/008/065

B014/B014

TITLE:

The Problem of Wave Resistance of a Body During Its Motion

in a Circle

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol 130, Nr 3, pp 514 - 516

(USBR)

ABSTRACT:

In the present paper a body is assumed to move in a horizontal circle with constant angular velocity ω beneath the free surface of a perfect heavy liquid. It is further assumed that the velocity potential of the liquid be constant on the axes of the body. The author studies the motions of a body in a round basin (case I), in a circular channel (case II), and in a circular cylinder (case III). The equation for the velocity potential φ_1 , which is assumed to be known, is given for the motion of the body in an unbounded liquid. The velocity potential of wave motion (1) is sought in cylindrical coordinates. The equations for the three above-mentioned cases yield the exact value of the wave potential at a sufficient distance from the body. In the neighborhood of the body these equations offer a close approximation, but do not warrant a rigorous satisfaction of the

Card 1/2

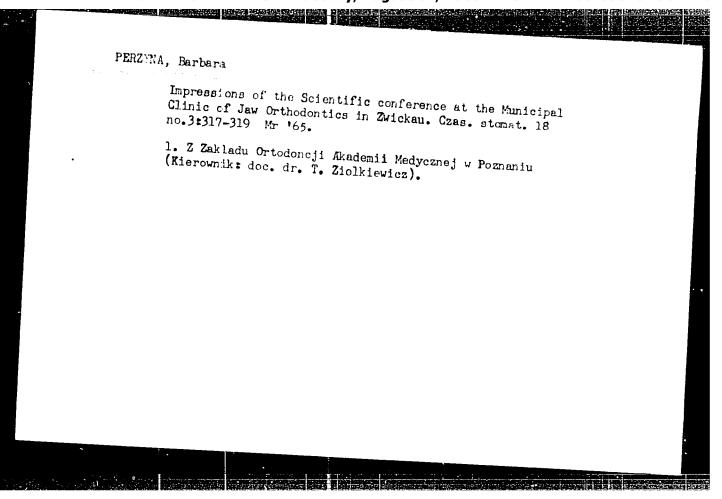
PERZYK, Z.

For a proper system of work in designing offices. p. 186.

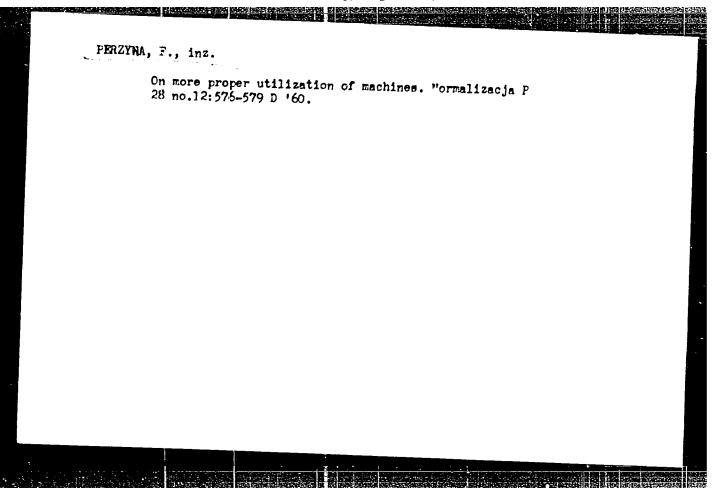
MECHANIK. (Stowarzyszeni e Inzynierow i Technikow Mechanikow Polskich) Warszawa, Poland. Vol. 4, no. 4, July/Aug. 1959.

Monthly List of East European Accession. (EEAI) LC, Vol. 9, no. 1, Jan. 1960.

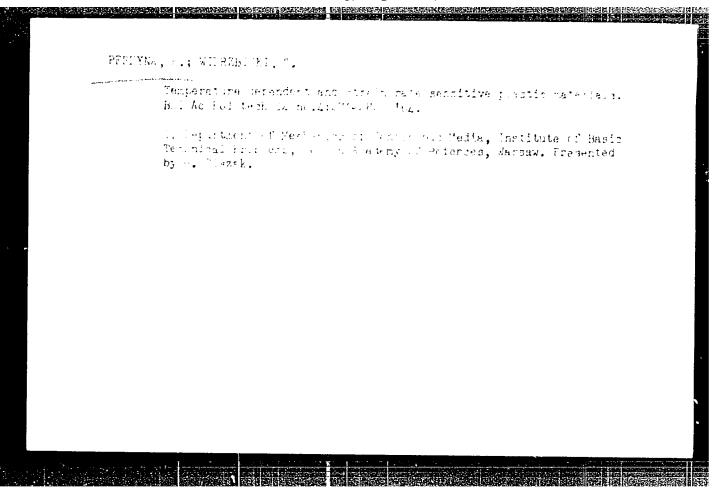
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Preoperative orthodontic procedures in complete cleft of the lip, alveolar process and palate. Poznan.tov.przyjaciol nauk, wydz. lek. (CLEFT PALATE surg)



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PERSYNA, E.; BEJOA, J.

The propagation of opherons, stress waves in a work-hardening and rate sensitive planton medium. But Ac follocing no.4: 283-290 [64.]

1. Department of Mechanics of Continuous Media, Institute of Basic Technical inchient, Police Jondemy of Sciences, Warsa... Presented by W. Ciszak.

EWT(m)/EPF(c)/EWP(j)/EWP(b)/EWP(t) Pc-4/Pr-4 JD/RM ACCESSION NI: AP5002536 P/0033/64/016/006/121 AUTHOR: Perzyna, P. (Warsaw); Bejda, J. (Warsaw) TITLE: The propagation of stress waves in a rate sensitive and work hardening SOURCE: Arthiwum methaniki stosowanej, v. 16, no. 6, 1964, 1215-1244 TOPIC TAGS: strain wave propagation, viscoelastic medium, plastic material, rate sensitive material ABSTRACT: The paper presents solutions of certain boundary value problems for work-hardening and deformation-rate-sensitive plastic material. This is a contimuation of an earlier investigation by the author dealing with the propagation of stress waves in a rate-sensitive plastic medium (ZAMP 3, v. 14, 1963, 241--261), but in the present paper more involved equations are necessary to describe the problem. It is assumed that the material can be treated like a viscoelastic plastic, for which the differential equations are written out. Four types of waves are considered: spherical, cylindrical radial, cylindrical shear, and plane. It is proved that for each of these types of waves, the work of plastic Card 1/3

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ACCESSION NR: AP5002536

deformation on the front of the shock wave (strong discontinuity) is equal to zero. Consequently, the problem of a plastic medium with work hardening reduces to the ideal plastic problem, involving a nonlinear Volterra differential equation of the second kind. This equation is solved by successive approximations. In the zones of viscoelastic deformations behind the front of the wall of n strong or weak discontinuity, the problem is solved along the characteristics by an approximate finite difference method. In the zones of inelastic deformations, s unified form of equation is obtained for all waves, and the boundary condittions lead to the solution of the generalized Picard problem. Examples of the propagation of a spherical wave and of a plane wave in half-space are presented for the case of soft steel. Comparison of the results of the work-hardening theory and the theory of a perfect plastic shows that in practice the influence of work hardening can be neglected, at least in a certain range of deformation rates. "The authors thank the staff of the computing center of the Polish Academy of Sciences for valuable assistance in the programming of the computations. Orig. art. has: 15 figures, 3 tables, and 100 formulas.

ASSOCIATION: Department of Mechanics of Continuous Media, IETP, Polish Academy of Sciences

Cord 2/3

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001240

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PERZYNA, Piotr

The constitutive equations for work-hardening and rate sensitive plastic materials. Proceed vibr probl 4 no. 3:281-290 '63.

1. Department of Mechanics of Continuous Media, Institute of Basic Technical Problems, Polish Academy of Sciences, Warsaw.

POLAND/Solid State Physics - Mochanical Proporties of Crystals and Polycrystalline Substances

Abs Jour : Ref Zhur - Fizika, No 12, 1958, No 27592

Author : Olszak Waclaw, Perzyna Pietr
Inst : Not Given
Title : Extremum Theorems in the Theory of Plasticity of Nonhorogeneous and Anisotropic Bodies.

Orig Pub : Arch. mech. stosowanoi, 1957, 9, No 6, 695-712

Abstract : No abstract

24 1200

S/044/62/000/004/063/099 C111/C333

AUTHOR:

Perzyna, P.

TITLE:

Analysis of propagation of plane elasto-plastic waves in a nonhomogeneous medium. I. Finite strains

PERIODICAL: Referativnyy zhurnal, Matematika, no. 4, 1962, 61,

abstract 4B260. (Bull. Acad. polon. sci. Sér. sci. techn.,

1960, 8, no. 9, 485-492)

TEXT: By a mathematical investigation of the equations of motion conditions are obtained which must be satisfied by the dependence stress-deformation and the properties of the inhomogeneous medium in order that the problem of propagation of charge and discharge waves can be solved by successive approximation and with the aid of difference equations along the characteristics.

Abstracter's note : Complete translation.

Card 1/1

24,1200

AUTHOR:

S/044/62/000/004/064/099 C111/C333

TITLE:

Analysis of propagation of plane elasto-plastic waves in a nonhomogeneous medium. II. Infinitesimal strains

PERIODICAL: Referativnyy zhurnal, Matematika, no. 4, 1962, 61, abstract 43281. ("Bull. Acad. polon. sci. Sér. sci. techn.", 1960, <u>8</u>, no. 9, 493-502)

This is the continuation of the paper (Ref 4B280). It is TEXT: assumed that stresses and deformations are connected by a linear law. It is shown that the character of the solution depends on whether the pressure at the boundary of the medium increases from a certain value forward or from zero forward. In the first case there arise waves of discontinuity. The problem is solved according to the method of successive approximations and reduced to two generalized Piccard problems. The author mentions the modifications which must be carried out in this method, if the pressure at the boundary of the medium increases monotonely from zero forward.

Abstracter's note : Complete translation. Card 1/1

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24. 4260 1327

AUTHOR:

TITLE:

Perzyna, Piotr, (Warsaw)

The second secon

General analysis of the problem of propagation of plane elastic-plastic waves in a non-hombgeneous

medium

PERIODICAL: Archiwum mechaniki stosowanej, v. 12, no. 3, 1960, 371 - 378

TEXT: In the present paper the author analyzes the propagation of plane strain waves in a non-homogeneous elastic-plastic body assuming that the strain-displacement relation is

$$e(x, t) = u_x(x, t) + \frac{1}{2} [u_x(x, t)]^2$$

where the subscript x denotes differentiation with respect to x. Since the practical aspect of this paper consists in possibly applying the considerations presented to investigating plane stress

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D242/D302

General analysis of the problem ...

waves in soils, the influence of the transversal motion may be disregarded. A similar assumption may be introduced if the propagation of stress waves in very thin bars is investigated. Taking the quadratic terms in the $(\varepsilon - u)$ -relation, it is possible to investigate the wave motion under high pressures, usually accompanied by great plastic strains. The purpose of the mathematical analysis presented in this paper is to give the conditions to be imposed on the functions, determining the $(\sigma - \varepsilon)$ -relation and the mechanical properties of the non-homogeneous body in order to obtain the solution describing the propagation of loading and unloading waves by the iteration method or the method of characteristics. An analysis is also made of the discontinuities appearing on the front of the elastic wave and on the front of the plastic wave

as a result of definite boundary conditions in the case of linearization of the $(\sigma + \varepsilon)$ -relations. In the discussion of the non-linear body problem the author first considers the loading process

He assumes the stress-strain relation in the form $o' = f(\varepsilon, x)$ (1.1.1)

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General analysis of the problem ...

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The author points out that the function $f(\varepsilon, x)$ should be determined on the basis of experimental investigations of the body considered. He assumes that this function is of the C^1 class in relationto the variables ε and x, and that its geometrical image in the (σ, ε, x) space is a surface, whose convexity is turned in the direction of the positive o axis. The equation determining the motion of the body is

$$-\frac{\partial^2 u}{\partial t^2} + \varrho^{-1}(x)\frac{\partial f}{\partial s}(1+u_x)u_{xx} + \varrho^{-1}(x)\frac{\partial f}{\partial x} = 0.$$
 (1.1.2)

The above assumptions for $f(\varepsilon, x)$ do not admit the formation of shock waves or discontinuity waves resulting from the surface conditions of the soil for x=0. In view of the non-linearity of Eq. (1.1.2) the author gives its solution by the method of characteristics. He then considers the unloading process, for which the relations are given in the form

 $\sigma = f(\varepsilon_0, x) - \left[\frac{\partial f(\varepsilon, x)}{\partial \varepsilon}\right]_{\varepsilon=0} (\varepsilon_0(x) - \varepsilon), \qquad (1.2.1)$

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P/033/60/012/003/006/007 D242/D302

General analysis of the problem ...

where $\varepsilon_0(x)$ is the strain in the unloading wave. The equation of motion of the body in the unloading zone is

$$-\frac{\partial^2 u}{\partial t^2} + \varrho^{-1}(x) \left[\frac{\partial f(e,x)}{\partial e} \right]_{f=0} (1+u_x) u_{xx} + F(u_x,x) = 0. \tag{1.2.2}$$

which is also a non-linear equation. Since the problem of propagation of waves for a body characterized by a non-linear function is very complicated, the author in the subsequent analysis confines himself to a linear function $f(\varepsilon, x)$. In discussing the physically linear body, the author first considers the loading process for which he assumes the relation (1.1.1) in the form

which he assumes the relation (1.1.1) in the form
$$\sigma(x,t) = \begin{cases} a(x) e(x,t) & \text{for } \epsilon(x,t) < \epsilon_{i}(x), \\ \beta(x) \epsilon(x,t) + |\alpha(x) - \beta(x)| \epsilon_{i}(x) & \text{for } \epsilon(x,t) > \epsilon_{i}(x), \end{cases} \tag{2.1.1}$$

where $\epsilon_{\rm g}({\rm x})$ denotes the yield point. It is assumed that $a({\rm x})>\beta({\rm x})$

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General analysis of the problem ...

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in the entire body, and that both functions are of the ${\tt C}^1$ class. The loading zone is composed of two regions, the elastic and the plastic. In the elastic region the equation of motion is

(2.1.2)
$$-\frac{\partial^2 u}{\partial t^2} + \frac{a(x)}{\varrho(x)} (1 + u_x) u_{xx} + \varrho^{-1}(x) \frac{da(x)}{dx} \left| u_x + \frac{1}{2} (u_x)^2 \right|$$
 (2.1.2)

In the plastic region it is

(2.1.3)
$$\frac{\partial^2 u}{\partial t^2} + \frac{\beta(x)}{\varrho(x)} (1 + u_x) u_{xx} + \varrho \cdot (x) \frac{d\mu(x)}{dx} \left[u_x + \frac{1}{2} (u_x)^2 \right] + \frac{d}{dx} \left[|a(x) - \beta(x)| \varepsilon_x(x) \right] = 0.$$

In the case of Eqs. (2.1.1) discontinuity waves may appear, depending on the boundary conditions. If on the surface x = 0 a pressure p(t) is applied starting from a certain value $p = p_0$, the front of the elastic wave and the front of the plastic wave are strong discontinuity lines. The author first discusses the elastic wave problem for which he obtains the non-linear integral Volterra equa-

Card 5/8

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P/033/60;012/003/006/007 D242/D302

General analysis of the problem ...

tion

$$u_x(x) = -1 + \sqrt{1 - 2\epsilon_x^0} + \int_0^x \varphi_1(z, u_x(z)) dz. \qquad (2.1.10)$$

He assumes that the function $\varphi_1(x, u_x)$ satisfies the Lipschitz condition in relation to u_x . The series

$$u_{x_{\nu}}(x) + \sum_{n=0}^{\infty} \left[u_{x_{\nu+1}}(x) - u_{x_{\nu}}(x) \right], \qquad (2.1.14)$$

is absolutely and uniformly convergent and its sum

$$u_{x}(x) = \lim_{n \to \infty} u_{x_{n}}(x)$$
 (2.1.15)

is the solution of the integral equation (2.1.10). In the case of the plastic wave problem the author obtains the non-linear Volterra integral equation

Card 6/8

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General analysis of the problem ...

The solution of the problem in the unloading zone may be obtained by using the inverse method. The author finally mentions full linearization. He states that under the assumption that $\varepsilon(x, t) = \partial u(x, t)/\partial x$ the Eqs. (2.1.2) and (2.1.3) become linear. Such a problem was solved in detail by the author in a previous article (Ref. 2: Arch. Mech. Stos., 5, 11, 1959, 595-612). There are 2 references: 1 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: P. Perzyna, The problem of propagation of elastic-plastic waves in a non-homogeneous bar, in "Non-Homogeneity in Elasticity and Plasticity", Symposium, Warsaw, September 2-9, 1958, Pergamon Press, New York-London, 1959.

ASSOCIATION: Department of Mechanics of Continuous Media, IBTP

Polish Academy of Sciences

SUBMITTED: January 25, 1960

Card 8/8

OLSZAK, W.; PERZYNA, P. off

Extremum theorems in general viscoelasticity. Bul Ac Pol tech 9 no.1:17-24 '61. (EFAI 10:9)

1. Department of Mechanics of Continuous Media, Institute of Fundamental Technical Problems, Polish Academy of Sciences. Presented by W. Olszak.

(Elasticity) (Viscosity)

PERZYNA, Piotr

Study on the dynamic behavior of rate sensitive plastic materials. Arthiv mech 15 no.1:113-130 *63.

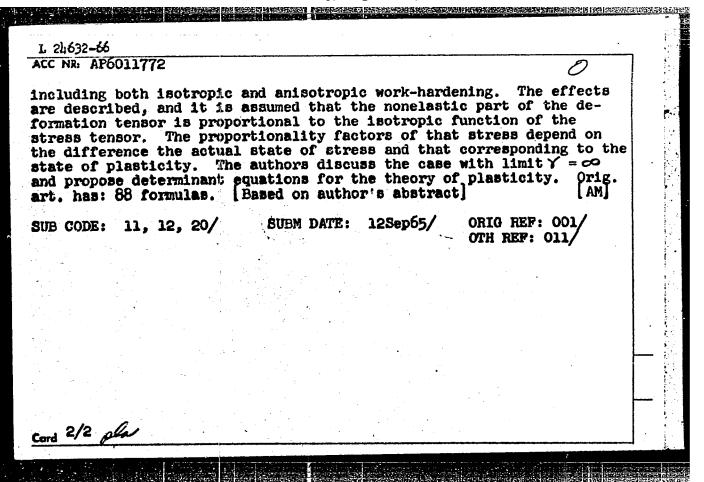
l. Department of Mechanics of Continuous Media, Institute of Basic Technical Problems, Polish Academy of Sciences, Warsaw.

PERZYNA, P.

On a nonlinear boundary-value problem for a linear hyperbolic partial differential equation. Bul &c Pol tech 12 no.12:861... 866 '64.

1. Popartment of Problems of Continuous Media of the Institute of Basic Technical Problems of the Polish Academy of Sciences, Warsaw, Submitted September 9, 1964.

T 57635-99 1 24632-66 EMP(W)/EWP(1)/T/ETC(m)-6 IJP(c) SOURCE CODE: P0/0033/66/018/001/0085/C100 AUTHOR: Perzyna, P. (Warsaw); Wojno, W. (Warsaw) ORG: Department of Mechanics of Continuous Media, IBTP Polish Academy TITLE: Determinant equations for elastic viscoplastic materials under SOURCE: Archiwum mechaniki stosowanej, v. 18, no. 1, 1966, 85-100 TOPIC TAGS: deformation rate, equation of state, plastic deformation, ABSTRACT: The paper deals with a detailed analysis and formulation of determinant equations describing the behavior of elastic viscoplastic materials sensitive to deformation. It is assumed that the material is isotropic and homogeneous and that the process is isothermal. The assumption of the additivity of the elastic and nonelastic parts of the deformation tensor makes possible individual equations describing the elastic and nonelastic properties of the material. A new representation of a material is proposed which, under certain additional conditions, with respect to Cauchy and Green, is al elastic The nonelastic properties of the material consist of the rheological relaxation-type effects and the plastic properties Cord 1/2



L 54928_65 EWT(d)/BWI ACCESSION NR: AP501233	(V)) TOR(d) - EUP(c) - EM
AUTHOR: Perzyna, P.	PC/0083/65/017/001/0087/0107
TITLE: The application of	the iteration method to the solution of the problems of propaga-
SOURCE: Archiwum mecha	niki stosowanej, v. 17, no. 1, 1965, 87-107
LUPIL I Alike strong	propagation, elastic medium, iteration method
ABSTRACT: In his previous 1962, 93-111; ZAMP, 14, 19 tion through an infinite elasti to a single mathematical proappropriate differential equal cylindrical shear, and plane formations is reduced to the equations in first-order parti	rapers (Arch. Mech. Stos., 13, 1961, 851-867; Ibid., 14, 163, 241-261), the author showed that the stress wave propagablem. By varying the coefficients and boundary conditions of the spherical, cylindrical radial, waves. In each case, the problem of elastic/viscoplastic desolution of a quasi-linear hyperbolic system of differential
Card 1/4 U	$t + AU_z + B = 0,$ (1. 1)

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component vector, A is an n x n matrix, and B is an n-con	1
where U is the appropriate necomponent vector, A is an n x n matrix, and B is an necomponent vector. A and B depend on the spatial coordinate z, time t, and the components of powent vector. A and B depend on the spatial coordinate z, time t, and the components of powent vector. A and B depend on the spatial coordinate z, time t, and the components of powent vector. A and B depend on the spatial coordinate z, time t, and the components of powent vector. A and B depend on the spatial coordinate z, time t, and the components of powent vector. A and B depend on the spatial coordinate z, time t, and the components of powent vector. A and B depend on the spatial coordinate z, time t, and the components of powent vector. A sud B depend on the spatial coordinate z, time t, and the components of powent vector. A sud B depend on the spatial coordinate z, time t, and the components of powent vector. A sud B depend on the spatial coordinate z, time t, and the components of powent vector. A sud B depend on the spatial coordinate z, time t, and the components of powent vector. A sud B depend on the spatial coordinate z, time t, and the components of powent vector. A sud B depend on the spatial coordinate z, time t, and the components of the powent vector. A sud B depend on the spatial coordinate z, time t, and the components of the powent vector.	
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(D IE FOO .		$(x, \varphi(x)) = g(x, u(x, \varphi(x)), u_r(x, \varphi(x))),$ (2.2)	
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ACCESSION NR: AP4038484

P/0033/64/016/001/0135/0143

AUTHOR: Perzyna, Piotr (Warsaw); Wierzbicki, Tomasz (Warsaw)

TITLE: Temperature dependent and strain rate sensitive plastic materials

SOURCE: Archiwum mechaniki stosowanej, v. 16, no. 1, 1964, 135-143

TOPIC TAGS: dynamic metal property, strain rate effect, dynamic stress, dynamic strain, temperature stress relation

ABSTRACT: A critical review of previous works concerning the effects of simultaneous action of both strain rate and temperature on the dynamical properties of metals beyond the elasticity limit is under these conditions are modified by using available experimental data to obtain more accurate results. Therefore, only narrow ranges experimental results are compared in diagrams by plotting the stress-and aluminum, and a fair agreement between theory and experiment

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can be seen. Orig. art. has: 12 formulas and 5 figures.

ASSOCIATION: Department of Mechanics of Continuous Media, IBTP Polish

Academy of Sciences

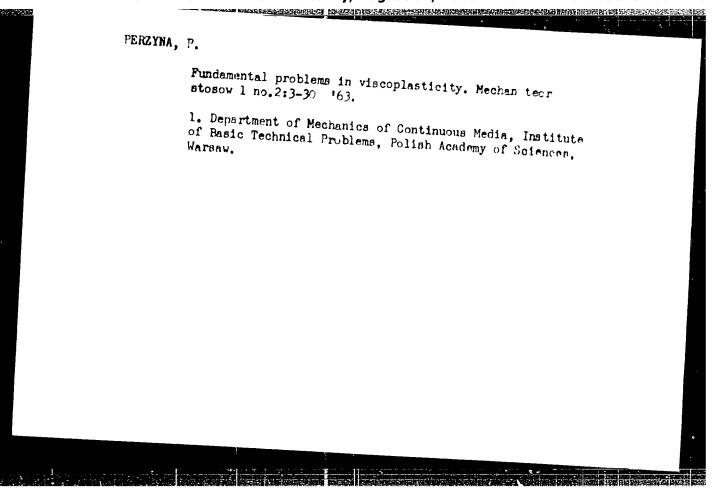
SUBMITTED: 20Sep63 DATE ACQ: 12Jun64

ENCL: 00

SUB CODE: AS,MM NO REF SOV: 003

OTHER: 013

Card 2/2



Temperature dependent and strain rate sensitive plastic materials. Archiv mech 16 no.1:135-143 '64.

1. Department of Mechanics of Continuous Media, Institute of Basic Technical Problems, Polish Academy of Sciences, Warsaw.

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Pancreatic juice secretion and behavior of trypsin in experimental acute pancreatitis. Pol. przegl. chir. 36 no.1:45-51 Ja 164

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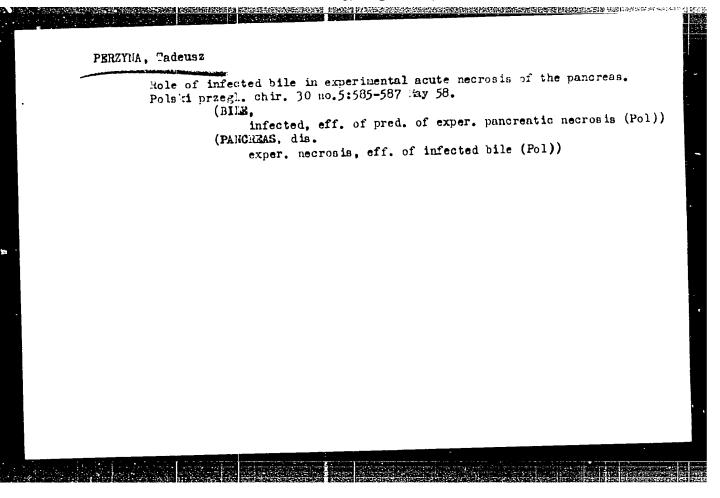
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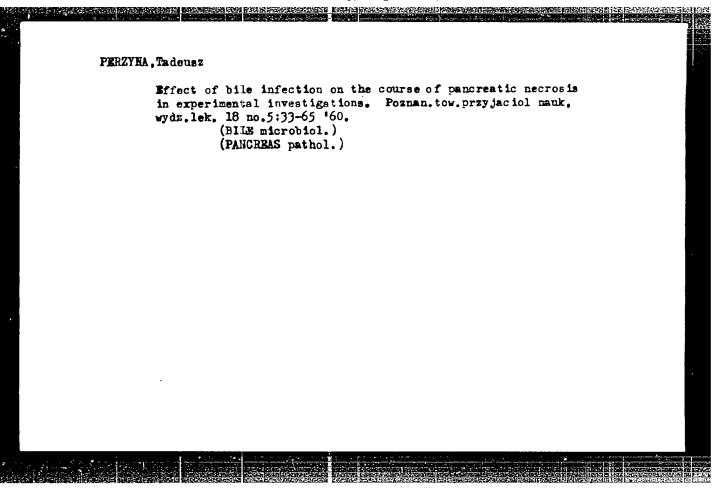
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Effect of hypothermia on the behavior of electropheretic fractions of blood proteins in rabbit. Polski przegl. chir. 30 no.2:103-110 Mr 158

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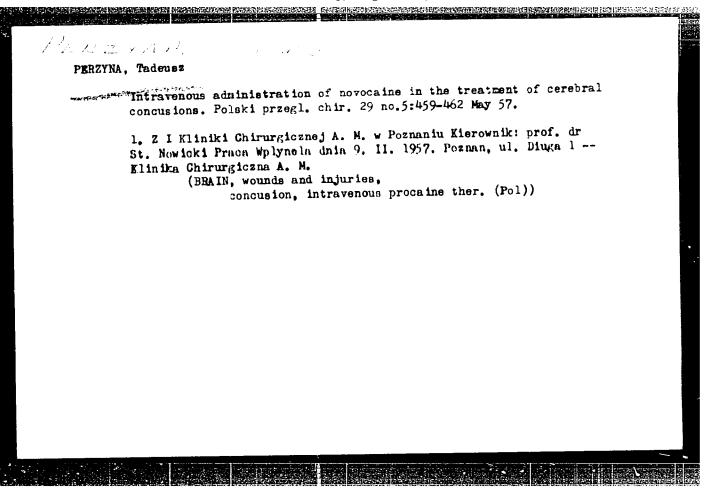


PERZYNA, Tadeusz (Poznan, I Klinika Chirurgiczna A. M., ul. Diuga 1/2)

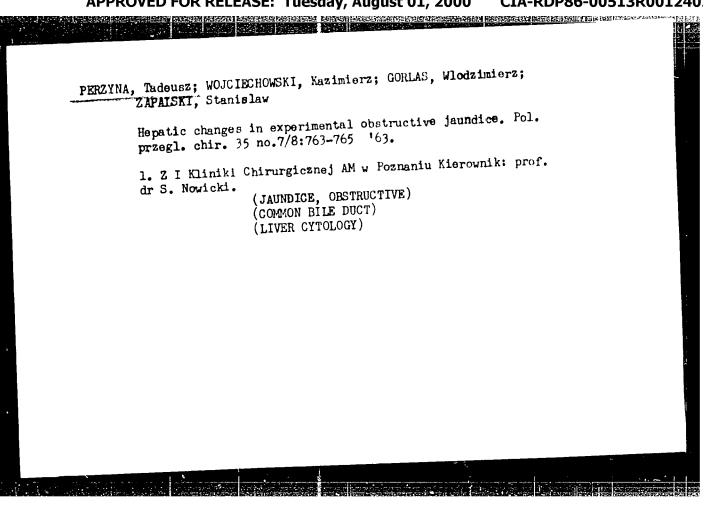
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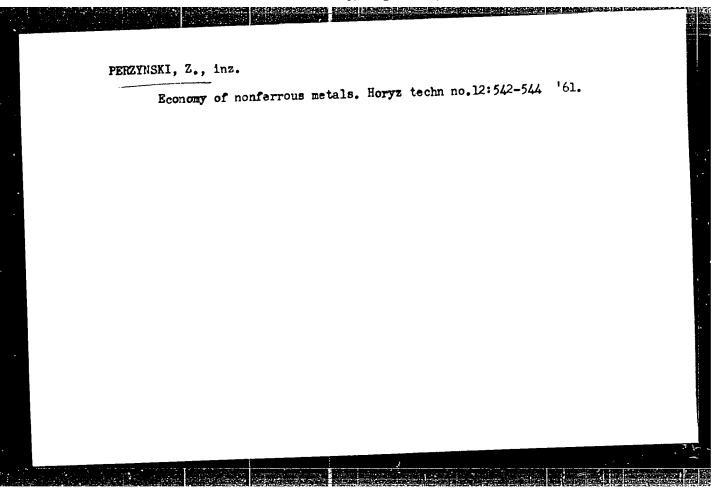
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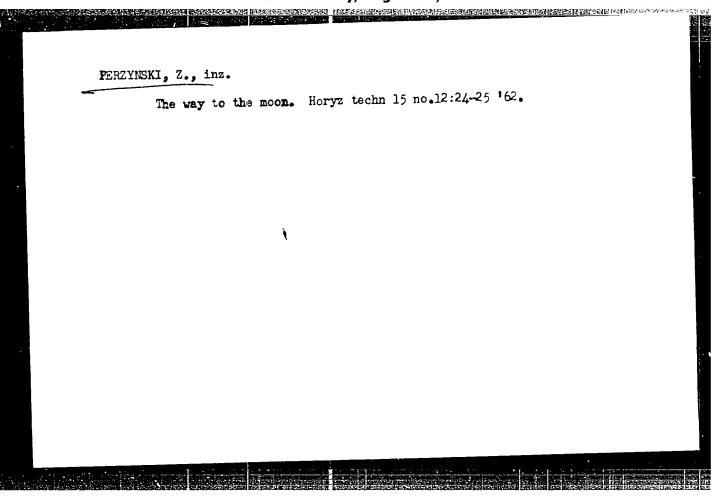
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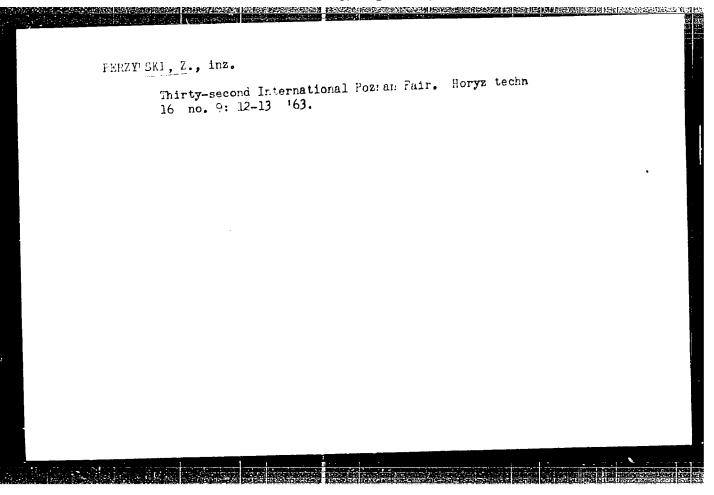


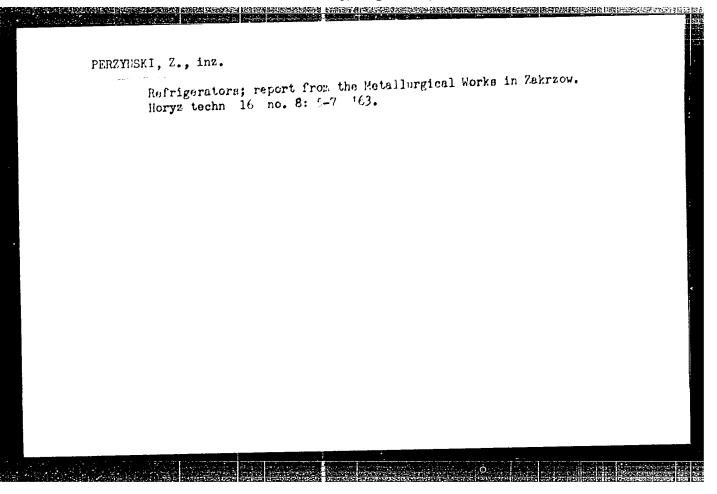


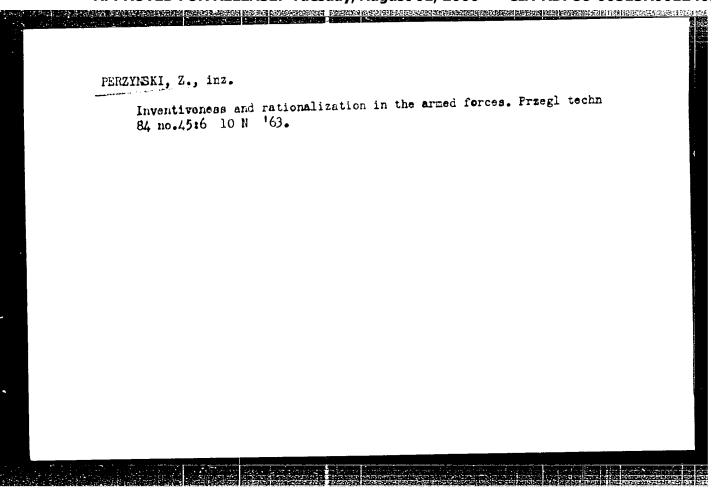
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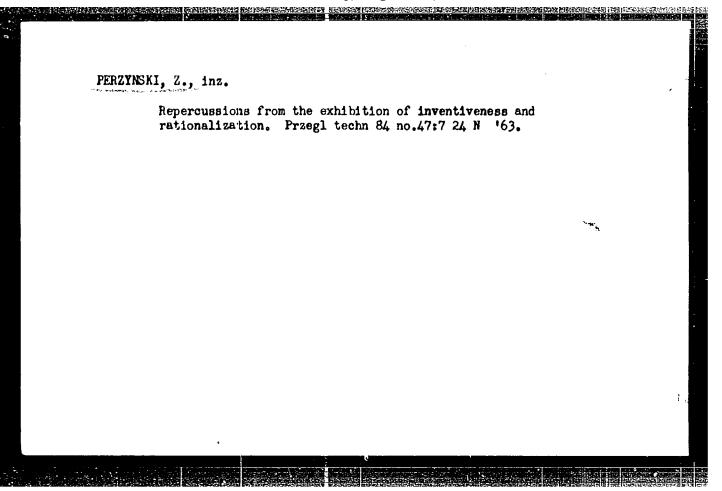
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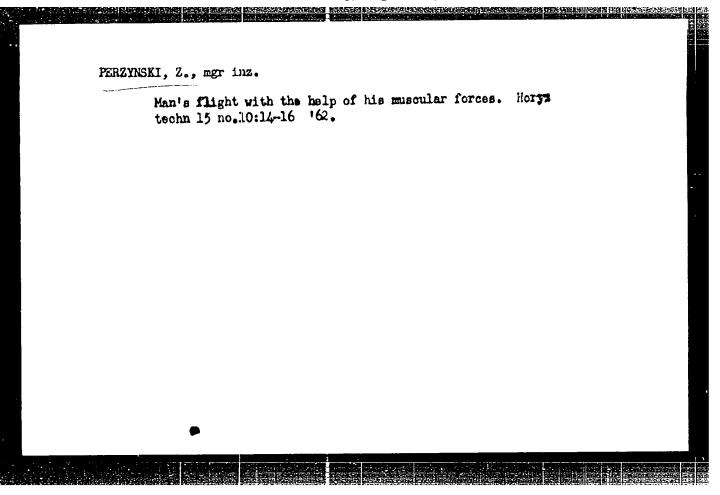


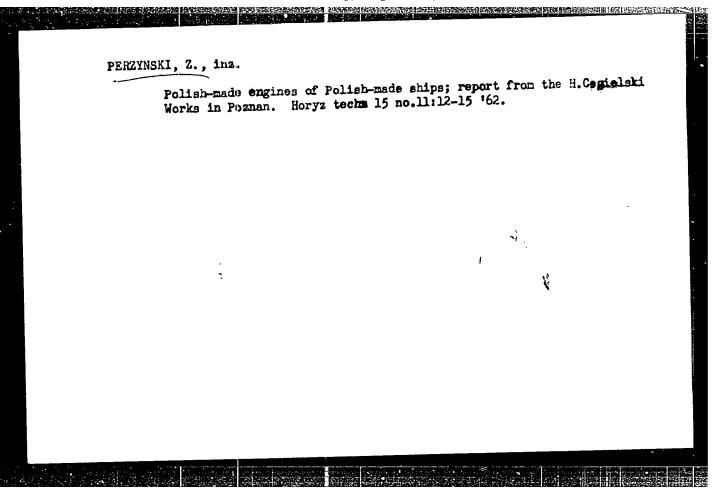


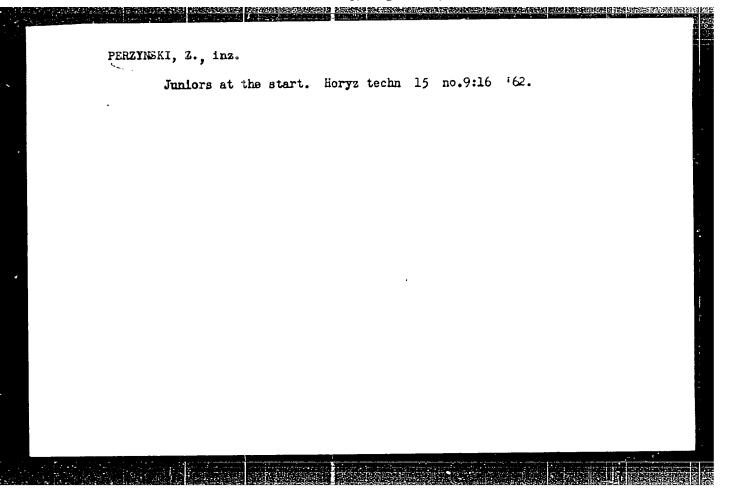


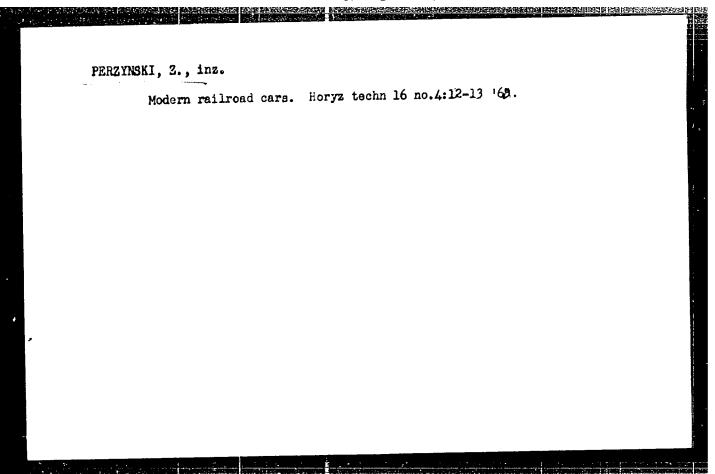


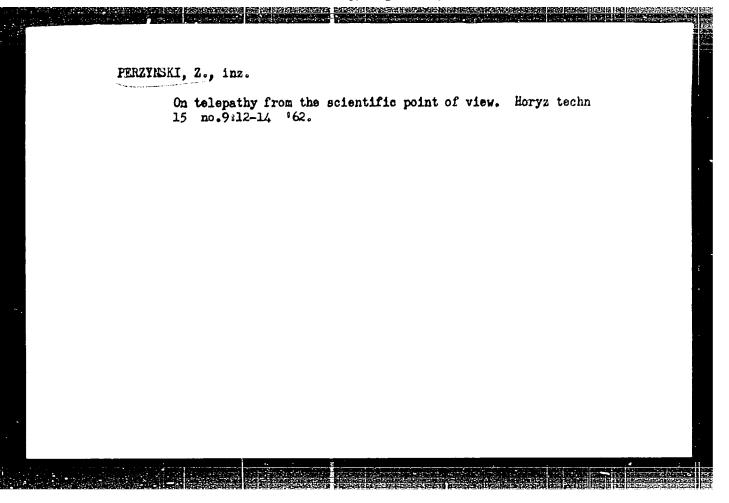


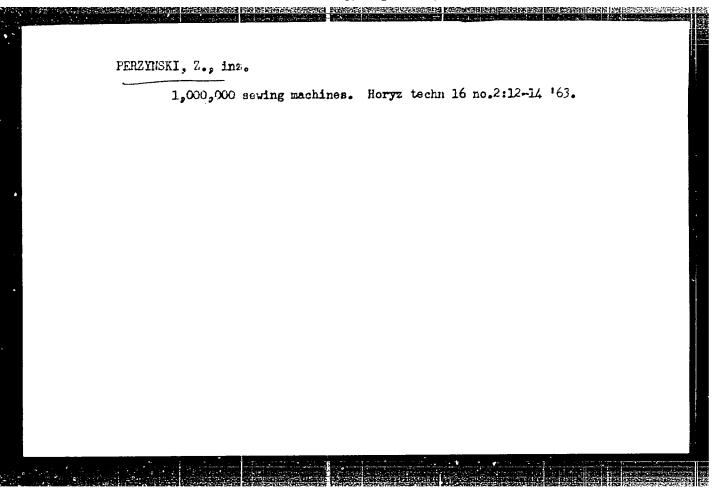




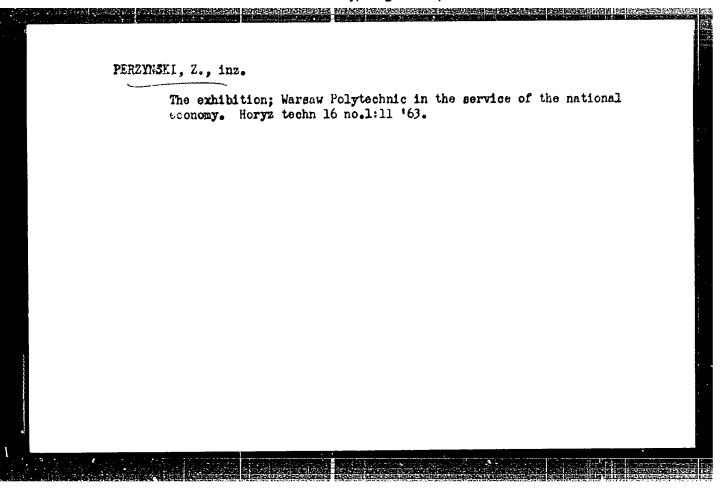


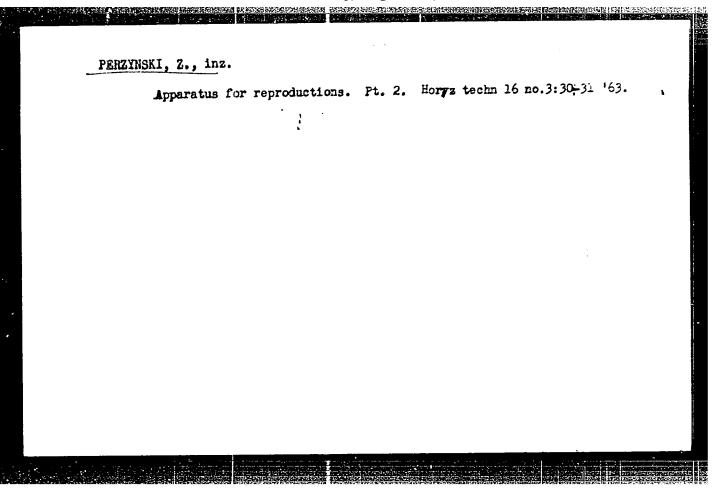


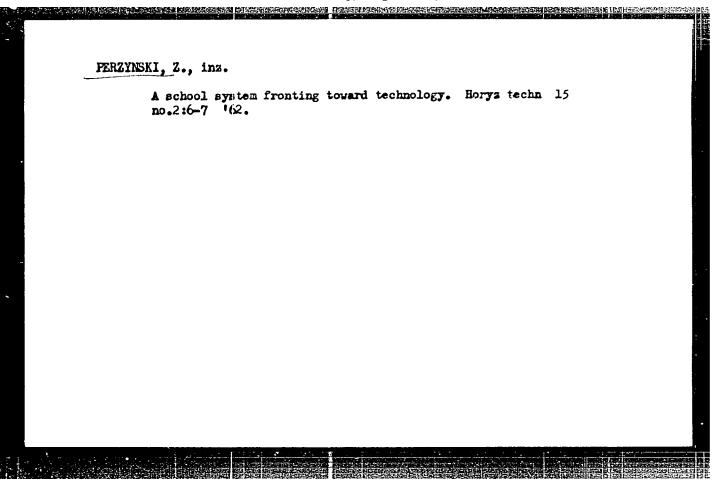


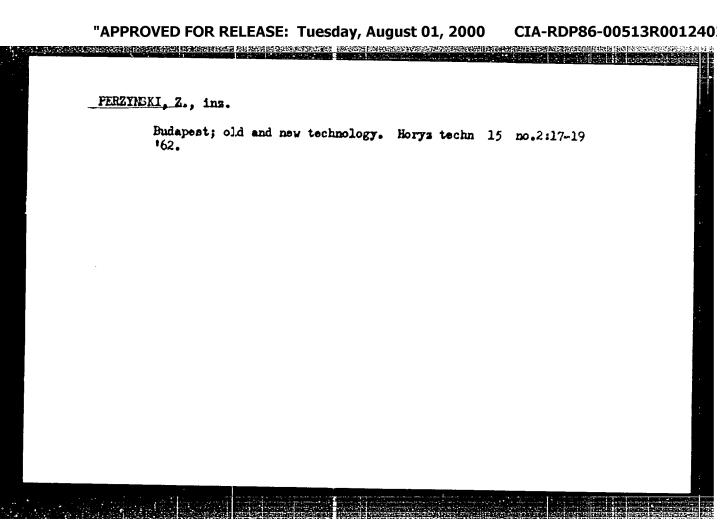


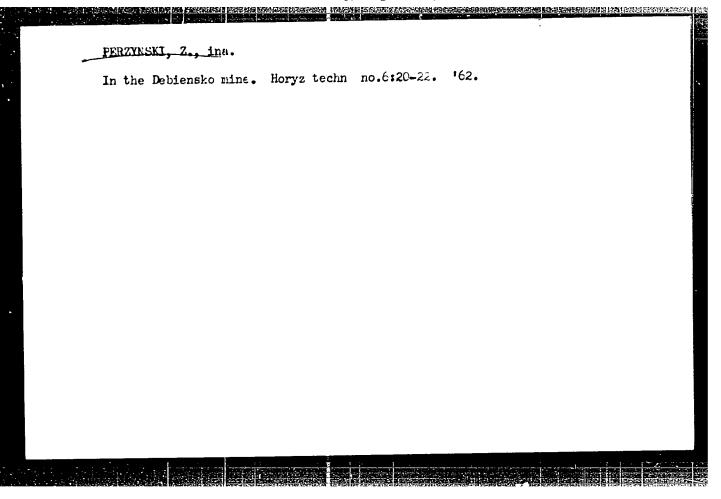
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P/001/60/000/005/001/003 A223/A026

AUTHOR:

Perzyński, Zdobysław, Engineer

TITLE:

Light "on the Index" - A Report From the Warsaw "Foton" Photochemi-

cal Plant

PERIODICAL:

Horyzonty Techniki, 1960, No. 5, pp. 195 - 197

TEXT: The article describes the origin and products of the Warsaw branch of the "Foton" Photochemical Plant. The first Polish photochemical plant was established in Warsaw in 1888 by Engineer Piotr Lebiedziński, a famous specialist in the field of light-sensitive materials. This plant, which also exported some of its products, operated successfully until after World War I when it met with financial difficulties. Lebiedziński, trying to save the situation, formed an association under the name of "Foton" which counted among its members Professor Iliński, the present head of the laboratory of the "Foton" Photochemical Plant. In 1937, the Photochemical Plant was formed as a section of the Colored Paper and Wallpaper Plant under the management of the Franaszek Plant in Warsaw. The largest pre-war photochemical plant in Poland was the "Alfa" Plant in Bydgoszcz, founded in 1926. There were also a number of small plants, such as the "Orion" in Kielce and the

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Light "on the Index" - A Report From the Warsaw "Foton" Photochemical Plant

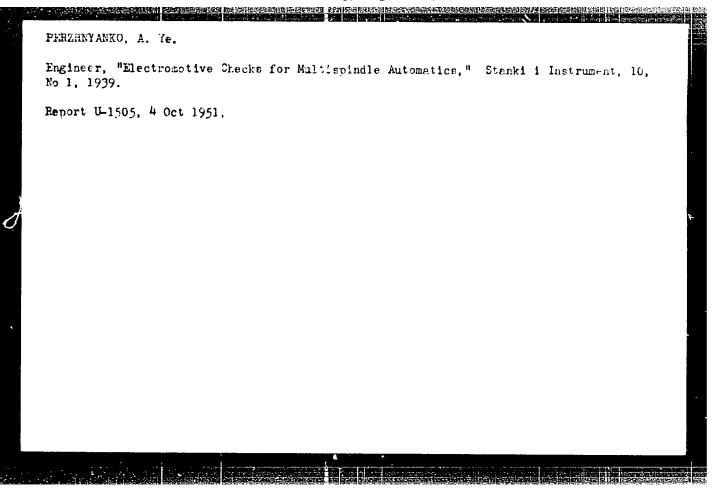
"Ero" in Poznan, both of which were destroyed during World War II. The "Alfa" Plant started operating again in 1945 immediately after cessation of hostilities, and the Franaszek Plant in Warsaw after reconstruction under the name of "Film Polski". Today there are two plants of this kind in Poland, i.e., the Warszawskie Zakłady Fotochemiczne (Warsaw Photochemical Plant), formerly "Franaszek" and the Bydgoskie Zakłady Fotochemiczne (Bydgoszcz Photochemical Plant), formerly "Alfa". Both of these plants are known under the joint name of "Foton". The Warsaw branch produces films and the Bydgoszcz branch paper, glass plates and chemicals. The Warsaw Plant which in the beginning produced the primitive "Fotopan" amateur film, has considerably increased its assortment and produces today the "Fotopan F" and "Fotopan Super" film with 17 and 21° DIN sensitivity and corresponding to the Agfa "Isopan F" and "Isopan ISS" films. Although the "Fotopan F" film gives good results and is used also for scientific photography, the amateur photographers would do well to use Agfa or Kodak films. The "Fotopan Super" film gives good results under proper light conditions. In case of over-exposure the results are not too good and efforts are being made by the plant to improve the quality of this product. Excellent photos have been obtained with the latest product of the plant, the "Fotopan Ultra" film which has a sensitivity of 240 DIN, or by Polish standards C.U.K. The positive Card 2/3

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Light "on the ...dex" - A Report From the Warsaw "Foton" Photochemical Plant

film of the "Foton" Plant with a fine-grain emulsion does not lag behind its Agfa or Kodak counterpart. The domestic production of this film covers 60% of Poland's requirements for this type of article. The Plant also achieved excellent results with the production of X-ray films. Two years ago an X-ray film with a sensitivity of 44°C.U.K. was produced. Lately, the Plant started the production of X-ray films with a sensitivity of 88°C.U.K. The Plant has been working on the manufacture of color films since 1949, when the first research laboratory was set up. The first positive color films will be on the market soon. The small-scale production of negative color films started in 1959 will be expanded in 1960. Preparations for the production of several color films are in progress. In 1959, the production of 8 and 16 mm cinema films was prepared, but the production had to be postponed until better cutting machines could be obtained. In the first section of the plant the emulsion is prepared and tested and in the second section the emulsion is spread onto celluloid tape, which is then perforated, rolled and packed. The Plant also carries out film developing and printing. There are 4 photos.

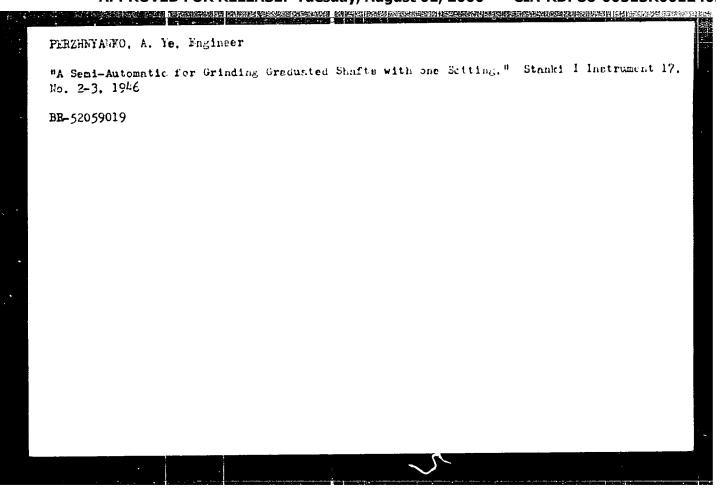
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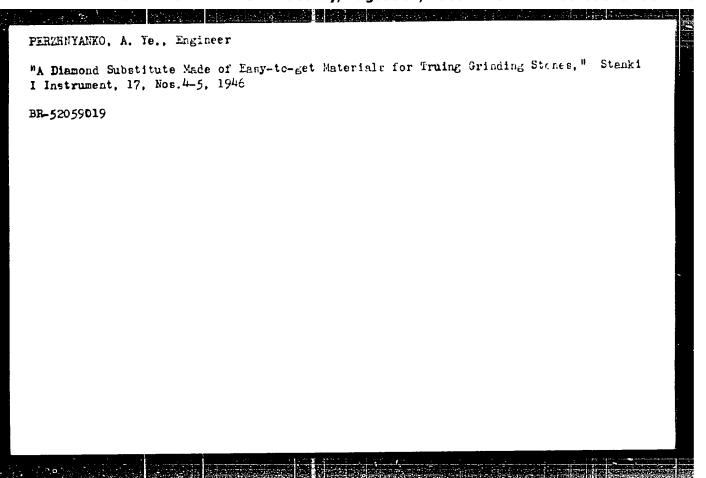


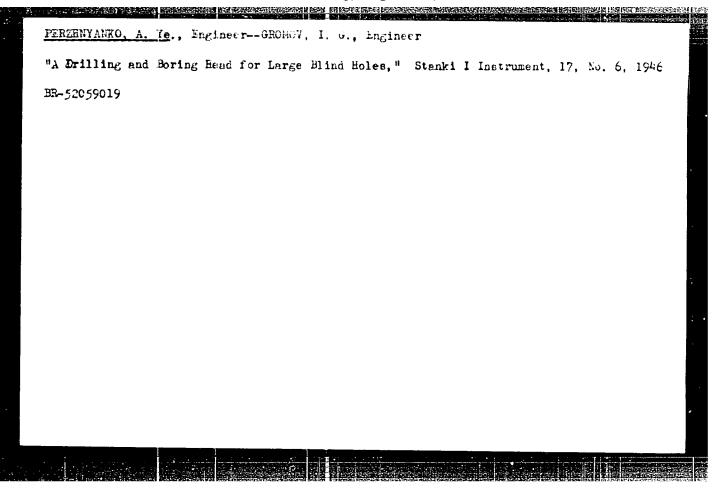
PERZHNYANKO, A. Ye., Engineer

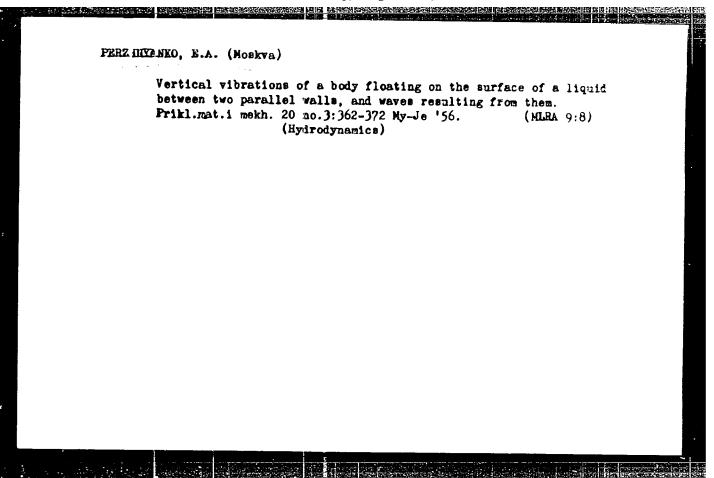
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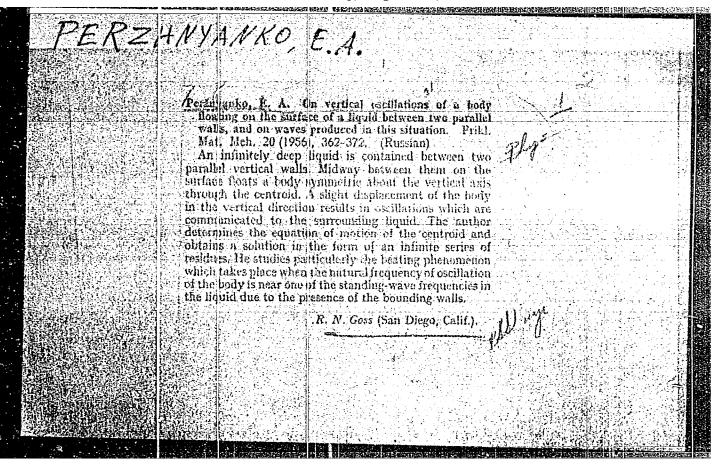
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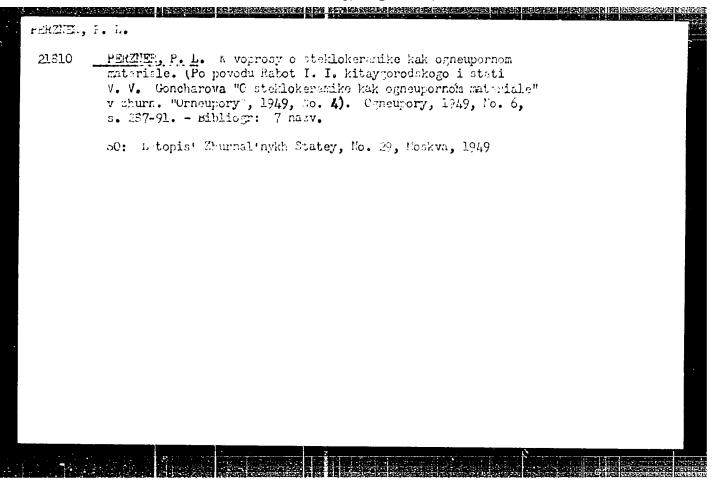
PERZINA, J.

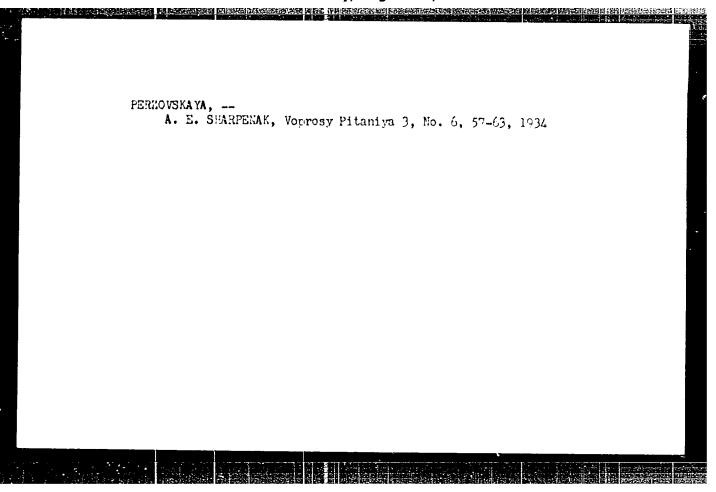
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PERZYNA. Barbara, Poznan, Slowackiego 42/2

Monoblock - its construction and function. Czas. stomat. 7 no.11:
433-440 New 54.

1. Z Zakladu ortodoncii Akademii Medycznej w Poznaniu. Kierownik:
doc. dr. 7.Ziolkiewicz
(MLOCCLUSION, therapy
Andersen's monoblock, construction & function)

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PERIODICAL: MECHANIK, Vol. 31, no. 7, July 1958.

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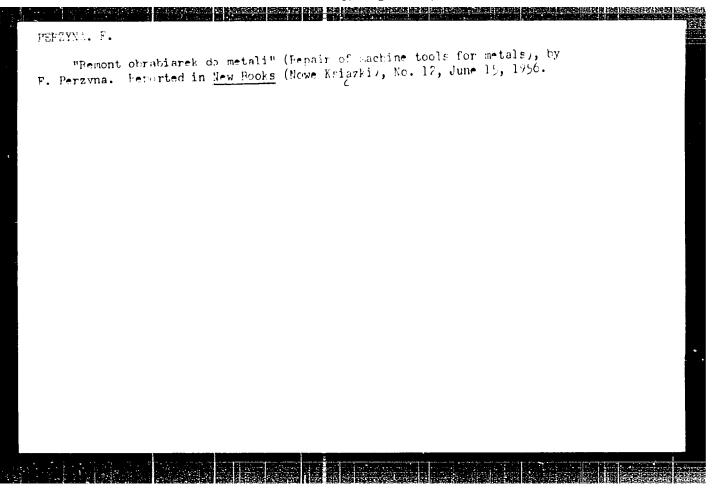
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1. Department of Mechanics of Continuous Media, Institute of Basic Technical Problems, Polish Academy of Sciences. Presented by W.Olszak.

(Strains and stresses) (Waves) (Elasticity)
(Plasticity)